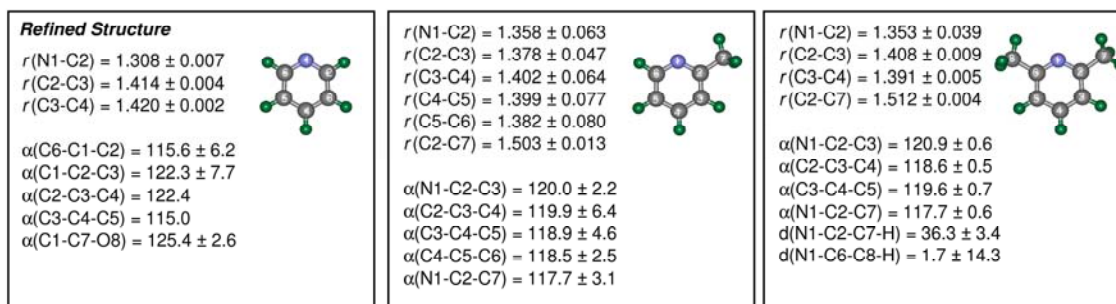
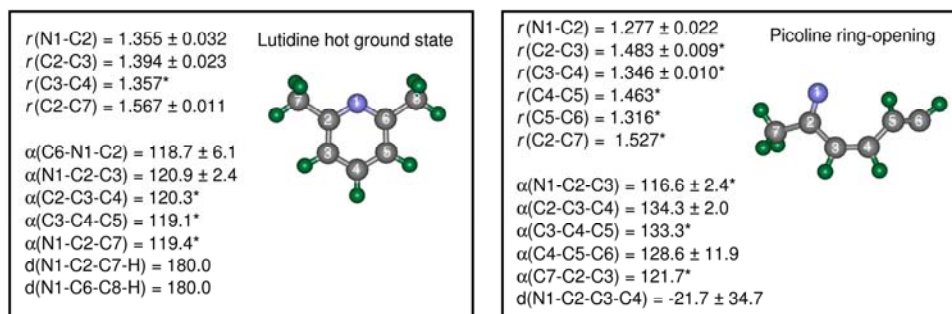


## Supporting Online Material



S1. Refined ground-state structures of pyridine, picoline and lutidine. Distances are in angstroms and angles are in degrees.



S2. Refined transient structures of hot ground-state lutidine and ring-opened picoline. Distances are in angstroms and angles are in degrees.